

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

SEQUENCE LISTING

<110> KRANZ, DAVID  
WITTRUP, K. DANE  
HOLLER, PHILLIP

<120> HIGH AFFINITY TCR PROTEINS AND METHODS

<130> 89-99

<140> NOT ASSIGNED  
<141> 2000-12-06

<150> US 60/169,179  
<151> 1999-12-06

<150> US 09/009,388  
<151> 1998-01-20

<160> 53

<170> PatentIn version 3.0

<210> 1  
<211> 4  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> null peptide

<400> 1

Met Cys Met Val  
1

<210> 2  
<211> 4  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> incubation peptide

<400> 2

Ser Ile Tyr Arg  
1

<210> 3  
<211> 24  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> upstream primer

<400> 3

Gly Gly Cys Ala Gly Cys Cys Cys Ala Thr Ala Ala Ala Cys Ala  
1 5 10 15

Cys Ala Cys Ala Gly Thr Ala Thr  
20

<210> 4  
<211> 74  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> downstream primer

<400> 4

Cys Thr Thr Thr Thr Gly Thr Gly Cys Cys Gly Gly Ala Thr Cys Cys  
1 5 10 15

Ala Ala Ala Thr Gly Thr Cys Ala Gly Ser Asn Asn Ser Asn Asn Ser  
20 25 30

Asn Asn Ser Asn Asn Ser Asn Asn Gly Cys Thr Cys Ala Cys Ala Gly  
35 40 45

Cys Ala Cys Ala Gly Ala Ala Gly Thr Ala Cys Ala Cys Gly Gly Cys  
50 55 60

Cys Gly Ala Gly Thr Cys Gly Cys Thr Cys  
65 70

<210> 5  
<211> 8  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> binding peptide

<400> 5

Ser Ile Tyr Arg Tyr Tyr Gly Leu  
1 5

<210> 6

<211> 8

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> screening peptide

<400> 6

Glu Gln Tyr Lys Phe Tyr Ser Val  
1 5

<210> 7

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 7

Ser Gly Phe Ala Ser Ala Leu  
1 5

<210> 8

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 8

Ser Ser Tyr Gly Asn Tyr Leu  
1 5

<210> 9  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 9

Ser Arg Arg Gly His Ala Leu  
1 5

<210> 10  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 10

Ser Ser Arg Gly Thr Ala Leu  
1 5

<210> 11  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 11

Ser His Phe Gly Thr Arg Leu  
1 5

<210> 12  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 12

Ser Met Phe Gly Thr Arg Leu  
1 5

<210> 13  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 13

Ser His Gln Gly Arg Tyr Leu  
1 5

<210> 14  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 14

Ser Tyr Leu Gly Leu Arg Leu  
1 5

<210> 15  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 15

Ser Lys His Gly Ile His Leu  
1 5

<210> 16  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 16

Ser Leu Thr Gly Arg Tyr Leu  
1 5

<210> 17  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 17

Ser Leu Pro Pro Pro Leu Leu  
1 5

<210> 18  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 18

Ser Ile Pro Thr Pro Ser Leu  
1 5

<210> 19  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 19

Ser Asn Pro Pro Pro Leu Leu  
1 5

<210> 20

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 20

Ser Asp Pro Pro Pro Leu Leu  
1 5

<210> 21

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 21

Ser Ser Pro Pro Pro Arg Leu  
1 5

<210> 22

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 22

Ser Ala Pro Pro Pro Ile Leu  
1 5

<210> 23  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 23

Ser Gly Thr His Pro Phe Leu  
1 5

<210> 24  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 24

Ser Gly His Leu Pro Phe Leu  
1 5

<210> 25  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 25

Ser Asp Ser Lys Pro Phe Leu  
1 5

<210> 26  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 26

Ser Ser Asp Arg Pro Tyr Leu  
1 5

<210> 27

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 27

Ser Leu Glu Arg Pro Tyr Leu  
1 5

<210> 28

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 28

Ser Arg Glu Ala Pro Tyr Leu  
1 5

<210> 29

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 29

Ser Leu His Arg Pro Ala Leu  
1 5

<210> 30  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 30

Ser Leu His Arg Pro Ala Leu  
1 5

<210> 31  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 31

Ser Ser Asn Arg Pro Ala Leu  
1 5

<210> 32  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 32

Ser Thr Asp Arg Pro Ser Leu  
1 5

<210> 33  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 33

Ser Gly Ser Arg Pro Thr Leu  
1 5

<210> 34

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 34

Ser Leu Val Thr Pro Ala Leu  
1 5

<210> 35

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 35

Ser Ala Thr Ser Pro Ala Leu  
1 5

<210> 36

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 36

Ser Ser Ile Asn Pro Ala Leu  
1 5

<210> 37  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 37

Ser Ala Ser Tyr Pro Ser Leu  
1 5

<210> 38  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 38

Ser Arg Trp Thr Ser Gly Leu  
1 5

<210> 39  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 39

Ser Gly Ser Arg Pro Ala Leu  
1 5

<210> 40  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 40

Ser Leu Thr His His Phe Leu  
1 5

<210> 41

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 41

Ser Met Thr His His Phe Leu  
1 5

<210> 42

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 42

Ser Leu Ser Arg Pro Tyr Leu  
1 5

<210> 43

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3alpha sequence

<400> 43

Ser Leu Thr Arg Pro Tyr Leu  
1 5

<210> 44  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 44

Ser Thr Tyr Arg His Tyr Leu  
1 5

<210> 45  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 45

Ser Gly Leu Ala Arg Pro Leu  
1 5

<210> 46  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 46

Ser Leu His Arg Pro Ala Leu  
1 5

<210> 47  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3alpha sequence

<400> 47

Ser Gly Thr His Pro Phe Leu  
1 5

<210> 48

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3beta sequence

<400> 48

Gly Gly Gly Gly Thr Leu Tyr  
1 5

<210> 49

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3beta sequence

<400> 49

Gly Gly Gly Gly Val Leu Tyr  
1 5

<210> 50

<211> 7

<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>

<221> misc\_feature

<222> ()..()

<223> CDR3beta sequence

<400> 50

Gly Leu Gly Gly Ile Leu Tyr  
1 5

<210> 51  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3beta sequence

<400> 51

Gly Gln Gly Gly Val Leu Tyr  
1 5

<210> 52  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3beta sequence

<400> 52

Gly Ser Gly Gly Ile Ile Tyr  
1 5

<210> 53  
<211> 7  
<212> PRT  
<213> ARTIFICIAL SEQUENCE

<220>  
<221> misc\_feature  
<222> ()..()  
<223> CDR3beta sequence

<400> 53

Gly Gly Gly Gly Ile Leu Tyr  
1 5